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1925.

Carlisle Rural District Council

ANNUAL REPORT

OF THE

Acting Medical Officer of Health

IAN MACDONALD, M.B.

James Beaty & Sons, Ltd., Carlisle.

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CARLISLE RURAL DISTRICT COUNCIL.

MR. CHAIRMAN AND GENTLEMEN,

I have the honour to present the Annual Report on the Health of your district during the year 1925.

GENERAL STATISTICS.

Area (acres), 64,702.

Population, 11,990 (Estimate of the Registrar-General).

Number of inhabited houses—

Number of families or separate occupiers—

Rateable value, £128,304.

Assessable (Reduced), £80,388.

Sum represented by a penny rate, £335.

EXTRACTS FROM VITAL STATISTICS OF THE YEAR.

	Total.	M.	F.	Birth-rate.
Births, Legitimate ..	154	76	78	13.7
Illegitimate	11	5	6	
				Death-rate.
Deaths	152	78	74	12.6

Number of women dying in, or in consequence of Child Birth .. .. from sepsis, —Nil. from other causes—Nil.

Deaths of Infants under one year of age per 1,000 births :—

Legitimate, 66.6 ; Illegitimate, — ; Total, 66.6.

Infantile Mortality. Eleven deaths of children under one year of life are stated to have occurred under this heading—8 boys and 6 girls (R.G.). Local returns correspond accordingly, and are allocated as follows:—Dalston and Wetheral Sub-Districts, 3 each; Burgh and St. Cuthbert Without, 2 each; and Stanwix, 1.

Four died under the age of one week, or 36 per cent. of the cases—3 from Prematurity, and one from Hydrocephalus and Spina Bifida.

In the later stages Marasmus and Respiratory Troubles figure. Of Zymotic diseases only one death, from Whooping Cough. One death certified as Status Lymphaticus, and one death accounted for by "drowning."

Six deaths were notified by medical practitioners, two died in the Cumberland Infirmary; inquests were held on two occasions, and one death took place in a Maternity Hospital, Carlisle.

The Infant death-rate per 1,000 of births was 66.6 The rates for the past five years were:—

Years.	1921.	1922.	1923.	1924.	1925.
Numbers	7	10	14	14	11
Rates	29	47	54	64	66.6

The rate for England and Wales per 1,000 births was 75; for Cumberland, 85; Urban Districts, 95; and Rural Districts, 71.

The total number of Illegitimate births over the whole County (excluding Carlisle) was 14 or 65 per one thousand of the total births.

The numbers and rates in this district for the quinquennial period are as follows:—

Years	1921.	1922.	1923.	1924.	1925.
Numbers	16	13	14	14	11
Rates	57	61	68	64	66.6

Deaths.

In arriving at a "corrected" estimate of the death-rate, it is necessary to take into consideration (1) that the numbers of persons who died within the district, but who did not belong to it, was 58—54 of whom died in Garlands Mental Hospital, situate in St. Cuthbert Without, and 4 whose residence was elsewhere. These are excluded. (2) On the other hand, the deaths of 28 persons whose "residence" was in this district, but who died elsewhere, fall to be included

From the returns of the Local Registrars, supplemented by in-transfers from the Registrar-General, 152 deaths occurred during the year, 78 males and 74 females.

The Registrar-General, in his summary, reports as above—this is equal to a death-rate of 12.6 per one thousand of the population, compared with 12.0 in 1924.

The death-rate, from all causes, in England and Wales, was 12.2 ; Cumberland, 13.4 ; Urban Districts, 14.3 ; and Rural, 12.4.

The rates in this district for the past five years are :—

Year	1921.	1922.	1923.	1924.	1925.
Numbers	143	141	131	140	152
Rates	12.0	12.2	11.0	12.0	12.6

Deaths from	Measles (all ages)	Nil.
,,	Whooping Cough (all ages)	two.
,,	Diarrhœa (under 2 years of age)	one

Births.

According to the returns of the Registrar-General, the number of Births (which is adopted here for statistical purposes) was 165—males 81 and females 84. This figure equals a birth-rate per 1,000 of the population of 13.7, compared with 18.2 of the previous year, when the births numbered 219.

The number of births, as gleaned from local sources, was 159—males 75, females 84, occurring in the different Sub-Districts, as follows : Wetheral, 50 ; Stanwix, 28 ; Dalston, 36 ; Burgh, 25 ; and St. Cuthbert Without, 20.

Illegitimate Births. The number of births, and rates for the past 5 years, are as follows :—

Years	1921.	1922.	1923.	1924.	1925.
Total Births	238	211	205	219	165
Rates	20.1	17.7	17.2	18.2	13.7

The Registrar-General records 11 births under this heading, 5 males and 6 females. The number supplied by the local Returns agrees. They are distributed as follows :—Wetheral Sub-District, 4 ; Stanwix, 2 ; Dalston, 3 ; Burgh, 2 ; and St. Cuthbert Without, none ; and none of these died in the first year of life.

The rate per 1,000 of births on the former basis is 66.6, compared with 64 in 1924.

Cancer. The number of deaths from Cancer was 21 (R.G., 21)—eleven males and ten females. They occurred in the different localities as follows :—

Stanwix, 6—2 male and 4 females.
Dalston, 5—3 males and 2 females.
Burgh, 3—2 males and 1 female.
Wetheral, 7—4 males and 3 females.
St. Cuthbert Without—Nil.

Of the female cases, 3 were married, 5 were spinsters, and 2 were widows. In the female cases the sites of the disease in the fatal cases were as follows :—gastric, pancreas, œsophagus, intestinal and liver, 1 each ; breast, 3 ; and 2 of the reproductive organs.

For the males, 5 were Intestinal, in two cases the chin and glands were affected, the stomach, liver and kidney, 1 each, and in one instance a Melanotic Sarcoma.

With regard to the sex-incidence, a survey of the fatal cases of this disease, numbering 88, goes to show that the sexes are equally represented.

The age and sex-incidence, on the basis of the Registrar-General's Return, are given in the following table :—

At All Ages 21	25—35	35—45	45—55	55—65	65—75	75—85	85—95	Totals
Males ..	..	1	3	3	2	2	..	11
Females ..	1	1	..	2	4	2	..	10
Totals ..	1	2	3	5	6	4	..	21

The death-rate per 1,000 of the population in Cumberland, 1.4 ; Urban Districts, 1.5 ; Rural Districts, 1.3 ; the rates in this district for the past five years are :—

Years ..	1921.	1922.	1923.	1924.	1925.
Numbers ..	19	18	15	15	21
Rates ..	1.5	1.5	1.2	1.2	1.75

Infectious Diseases.

Sixty-two notifications of diseases under this heading were received. They are as follows :—

Scarlet Fever	26
Tuberculosis (all forms)	9
Diphtheria	—
Erysipelas	3
Influenzal Pneumonia	11
Pneumonia	12
Enteric Fever	—
Puerperal Sepsis	—
Malaria	1
Total ..	62

In the class of zymotic diseases under which term are included Enteric Fever, Smallpox, Scarlet Fever, Measles, Whooping Cough, Diphtheria and Diarrhœa—two deaths were registered ; one was due to Whooping Cough, and one to Diarrhœa. This corresponds to a zymotic death-rate of 0.1 per one thousand of the population, and compares favour-

ably with 0.6 for Cumberland, 0.7 for Urban Districts, and 0.4 for Rural Districts. The numbers and rates for this District in the past five years are as follows :— ,

Years	1921.	1922.	1923.	1924.	1925.
Cases	0	3	6	2	2
Rates	0	0.2	0.5	0.1	0.1

Scarlet Fever. Twenty-six cases of Scarlet Fever were notified, compared with twenty-two in 1924. The attack-rate per thousand of the population was 2.2.

They occurred in the Sub-Districts as follows :—Wetheral, 13 ; St. Cuthbert Without, 2 ; Stanwix, 2 ; and Dalston, 9.

The number of patients isolated in Hospital during the year was 20, or 77% of the total notifications. The average residence in Hospital was 38 days.

Diphtheria. No cases of this disease were notified, compared with four cases in 1924.

The numbers and rates per 1,000 of the population for the last five years :—

Years	1921.	1922.	1923.	1924.	1925.
Numbers	2	4	9	4	0
Rates	0.1	0.3	0.7	0.3	0

Smallpox. The district has kept free from Smallpox during 1925. In this connection it is gratifying to report that the Official Returns of Vaccination continue to be satisfactory. During the year the number of successful vaccinations was 149 ; while 10 certificates were received from conscientious objectors. Should occasion arise, facilities for the isolation of patients suffering from this disease are provided at the Carlisle Corporation Hospital under an agreement between the two Councils. The Hospital has 12 beds, with ample ground for extension, and is situated within this district 2½ miles from Carlisle.

Enteric Fever. No cases of this disease were notified.

Influenza and Pneumonia.

Under the heading of Influenza and Pneumonia (all forms), 21 deaths were registered. In eight instances the Influenza was complicated with Acute Pneumonia, and one case of the cerebral type was notified. The following (cases) tables show the age incidence of the fatal cases in this category. The sex incidence was 12 males and 9 females.

INFLUENZA.

Age Distribution of Deaths.

0 to 25.	25 to 35.	35 to 45.	45 to 55.	55 to 65.	65 to 75.	75 to 85.	85 & up.	Totals.
0	3	1	3	0	3	5	1	16

PNEUMONIA (all forms).

Age Distribution of Deaths.

0 to 1.	1 to 2.	2 to 5.	5 to 15.	15 to 25.	25 to 35.	35 to 45.	45 to 55.	55 to 65.	65 to 75.	75 to 85.	85 & up.	Total.
1	0	0	1	0	0	0	1	1	1	0	0	5

Tuberculosis.

On January 1st, there remained under treatment from the previous year 16 cases of Pulmonary Tuberculosis, 8 males and 8 females ; and 6 cases of Non-Pulmonary Tuberculosis, 3 of which were males and 3 females, 22 cases in all. During the year under review, 7 new cases of Pulmonary Tuberculosis were intimated, 4 in Wetheral Sub-District, 1 in Stanwix, and 2 in Dalston. There were also notified 2 new cases of Non-Pulmonary Tuberculosis, both in Wetheral Sub-District. This making a total Tuberculosis Return of 31.

Mortality.

There were 10 deaths, 8 due to Pulmonary, and one to Non-Pulmonary causes. Five of them were males and five females. The total mortality rate per 1,000 of the population was 0.8.

The rates for the past five years are as follows :—

Years	1921.	1922.	1923.	1924.	1925.
Phthisis Death-rates	1.1	0.9	0.6	0.5	0.58
Total Tuberculosis					

Death-rates .. 1.1 .. 1.0 .. 0.7 .. 0.5 .. 0.8

As already stated, 9 cases of this disease occurred during the year, and these were all duly notified by medical practitioners.

The following Table gives the age and sex incidence of new cases, and of deaths from Tuberculosis (all forms) during 1925 :—

TUBERCULOSIS.

	New Cases.				Deaths.			
	Pulmonary.		Non-Pulmonary.		Pulmonary.		Non-Pulmonary.	
Age-Periods.	M.	F.	M.	F.	M.	F.	M.	F.
0	..	..	..	..	..	..	..	1
1	..	..	..	..	..	..	..	1
5	1	..	..	..	1	..	..	..
10	1	..	..	..	..	..	..	..
15	2	..	..	..	..	..	..	..
20	..	..	..	..	1	..	..	..
25	1	1	1	..	2	2	..	..
35	..	..	1	..	..	1	..	..
45	1	..	..	..	1	..	..	..
55	..	..	..	..	..	..	..	..
65 and upwards	..	..	..	..	..	..	..	..
Totals	6	1	2	—	5	3	..	2

Inquests. Inquests were held on ten occasions by Mr. F. W. Halton, Coroner for East Cumberland. Five deaths were due to injuries sustained in motor accidents.

Three deaths were due to drowning ; one death was due to injuries received from being crushed between two waggons, and one death was found to be due to natural causes.

I am,

Mr. Chairman and Gentlemen,

Your obedient servant,

Ian Macdonald.

TABLE I.

BIRTHS, 1925.

SUB-DISTRICT.	1st Quarter.		2nd Quarter		3rd Quarter		4th Quarter		Totals for Year.		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total
Wetheral	6	4	7	8	9	4	5	7	27	23	50
Dalston	5	2	8	7	4	5	1	4	18	18	36
Stanwix	3	3	1	5	3	3	2	8	9	19	28
Burgh	3	4	3	3	4	3	3	2	13	12	25
St. Cuthbert Without ..	3	3	1	2	4	2	0	5	8	12	20
Totals	20	16	20	25	24	17	11	26	75	84	159

Sub-District.	*Illegitimate.*		
	M.	F.	Total.
Wetheral	1	3	4
Stanwix	1	1	2
Dalston	2	1	3
Burgh	1	1	2
St. Cuthbert Without	—	—	—
Totals	5	6	11

The Registrar-General 165 *probably includes births in* 2 *Broad Street, and in the City Maternity Home, and elsewhere.*

TABLE II.

DEATHS, 1925.

SUB-DISTRICT.	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter		Totals for Year.		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total
Wetheral	10	7	3	8	7	5	5	6	25	26	51
Stanwix	8	5	5	7	6	5	3	4	22	21	43
Dalston	4	5	6	2	1	4	6	3	17	14	31
Burgh	4	0	3	4	1	1	0	1	8	6	14
St. Cuthbert Without	4	3	1	1	0	2	1	1	6	7	13
Totals	30	20	18	22	15	17	15	15	78	74	152

TABLE III.

BIRTH-RATE, DEATH-RATE, AND ANALYSIS OF MORTALITY DURING THE YEAR 1925.

—	Birth-rate per 1,000 Total Population	Annual Death-Rate per 1,000 Population									Rate per 1,000 Births		Percentage of Total Deaths		
		All Causes	Enteric Fever	Small-pox	Measles	Scarlet Fever	Whooping Cough	Diptheria	Influenza	Violence	Diarrhœa and Enteritis (under Two years)	Total Deaths under One year	Causes of Death Certified by Registered Medical Practitioners	Inquest Cases	Uncertified Causes of Death
England and Wales ..	18.3	12.2	0.01	0.00	0.13	0.03	0.15	0.07	0.32	0.47	8.4	75	92.1	6.9	1.0
105 County Boroughs and Great Towns, including London	18.8	12.2	0.01	0.00	0.17	0.03	0.18	0.09	0.30	0.43	10.8	79	92.1	7.3	0.6
157 Smaller Towns (1921 Adjusted Populations 20,000–50,000)	18.3	11.2	0.01	0.00	0.15	0.02	0.14	0.06	0.31	0.38	7.6	74	93.0	5.9	1.1
London	18.0	11.7	0.01	—	0.08	0.02	0.19	0.11	0.23	0.46	10.6	67	91.1	8.9	0.0

TABLE IV.

BIRTH RATE, DEATH RATE, AND ANALYSIS OF MORTALITY DURING THE YEAR 1925.

PROVISIONAL FIGURES.

	Birth rate per 1,000 total population.	ANNUAL DEATH RATE per 1,000 POPULATION.				Infant Mortality.
		All causes.	Zymotic Diseases.	Cancer.	Phthisis.	
ENGLAND AND WALES	18.3	12.2				75
CUMBERLAND ..	18.9	13.4	0.6	1.4	0.6	85
URBAN	19.7	14.3	0.7	1.5	0.7	95
RURAL ..	17.8	12.4	0.4	1.3	0.6	71
CARLISLE R.D.	13.7	12.6	0.1	1.75	0.58	66.6

TABLE V.

CASES OF INFECTIOUS DISEASES NOTIFIED DURING THE YEAR 1925.

	Cases notified in whole district.													Total cases notified In each locality.					
	At all Ages	At Ages—Years.																	
		Under 1.	1	2	3	4	5	10	15	20	35	45	65 and over.	Wetheral.	Stanwix.	Dalston.	St. Cuthbert Without.	Burgh.	Removed to Hospital.
Enteric Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlet Fever	26	..	..	1	1	4	5	6	6	3	..	..	..	13	2	9	2	..	20
Erysipelas..	3	..	..	..	..	..	..	..	1	..	1	1	..	1	..	2	..	..	..
Influenzal Pneumonia ..	11	..	..	..	..	..	..	..	1	5	1	1	3	6	3	2	..	..	..
Acute Lobar Pneumonia	12	..	..	..	2	1	1	1	1	3	1	1	1	5	4	3	..	..	..
Ophthalmia Neonatorum	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pulmonary Tuberculosis	7	..	..	..	..	..	1	1	2	2	..	1	..	4	1	2	..	..	..
Non-Pulmonary	2	..	..	..	..	..	..	..	..	1	1	..	..	2	..	..	..	..	..
Malaria	1	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	..
Totals	62	..	..	1	3	5	7	8	11	14	5	4	4	32	10	18	2	..	

TABLE VI.

Causes of Death during the Year 1925.

	Causes of Death.	Male.	Female.
	All Causes	77	75
1	Enteric Fever	—	—
2	Smallpox	—	—
3	Measles	—	—
4	Scarlet Fever	—	—
5	Whooping Cough	1	1
6	Diphtheria	..	—
7	Influenza	9	7
8	Encephalitis lethargica	—	—
9	Meningococcal meningitis	—	—
10	Tuberculosis of respiratory system	5	3
11	Other tuberculous diseases	—	2
12	Cancer, malignant disease	11	10
13	Rheumatic fever	—	—
14	Diabetes	—	1
15	Cerebral hæmorrhage, &c.	1	8
16	Heart disease	12	10
17	Arterio-sclerosis	4	3
18	Bronchitis	2	3
19	Pneumonia (all forms)	3	2
20	Other respiratory diseases	—	1
21	Ulcer of stomach or duodenum	—	—
22	Diarrhœa, &c. (under 2 years)	—	1
23	Appendicitis and typhlitis	1	1
24	Cirrhosis of liver	1	0
25	Acute and chronic nephritis	—	3
26	Puerperal sepsis	—	1
27	Other accidents and diseases of pregnancy and parturition	—	1
28	Congenital debility and malformation, premature birth	5	1
29	Suicide	—	—
30	Other deaths from violence	8	3
31	Other defined diseases	13	18
32	Cause ill-defined or unknown	1	—
	Special Causes (included above)	—	—
	Poliomyelitis	—	—
	Polioencephalitis	—	—
	Deaths of Infants under 1 year — Total	8	3
	Deaths of Infants under 1 year — Illegitimate ..	—	—
	TOTAL BIRTHS	81	84
	Legitimate	76	78
	Illegitimate	5	6
	POPULATION	11,900	